

### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

# NOTICE OF ALLOWANCE AND FEE(S) DUE

23413

7590

10/21/2002

CANTOR COLBURN, LLP 55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002 EXAMINER

ABRAHAM, FETSUM

ART UNIT

CLASS-SUBCLOSS

2826

257-072000

DATE MAILED: 10/21/2002

٢	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
_	09/487,004	01/19/2000	TSUTOMU YAMADA		2602

TITLE OF INVENTION: AN ELECTROLUMINESCENE DISPLAY DEVICE WITH A NMOSFET SWITCH HAVING AN LDD BASED DOUBLE-GATED STRUCTURE

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$0	\$1280	01/21/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

## HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents

Washington, D.C. 20231

Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block I)

23413

7590

10/21/2002

CANTOR COLBURN, LLP 55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002 Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO. on the date indicated below.

	transmitted to the OSI 10, on the date mulcated below.
(Depositor's name)	
(Signature)	**
(Date)	

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09/487,004	01/19/2000	TSUTOMU YAMADA		2602

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nonprovisional	nonprovisional NO \$1280		\$0		\$1280	01/21/2003
EXAMI	NER	ART UNIT	CLASS-SUBCLASS			
ABRAHAM, FETSUM 2826			257-072000			
1. Change of corresponden CFR 1.363).	ice address or indication of	` l	2. For printing on the pat the names of up to 3 regi	istered patent atto-	rneys 1	
☐ Change of corresponde Address form PTO/SB/12	ence address (or Change of 22) attached.	or agents OR, alternative single firm (having as a	member a regis	stered	>	
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered patent attorneys or agents. If no name is listed, no name will be printed.			

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be	be printed on the patent)
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):
☐ Issue Fee	☐ A check in the amount of the fee(s) is enclosed.
☐ Publication Fee	☐ Payment by credit card. Form PTO-2038 is attached.
☐ Advance Order - # of Copies	☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number(enclose an extra copy of this form).
Commissioner for Patents is requested to apply the Issue Fee and Publi	ication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.
(Authorized Signature) (Date)	
NOTE; The Issue Fee and Publication Fee (if required) will not be other than the applicant; a registered attorney or agent; or the assinterest as shown by the records of the United States Patent and Trade	e accepted from anyone signee or other party in emark Office.
This collection of information is required by 37 CFR 1.311. The in obtain or retain a benefit by the public which is to file (and by the application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFI estimated to take 12 minutes to complete, including gathering, prepare completed application form to the USPTO. Time will vary depend case. Any comments on the amount of time you require to cor suggestions for reducing this burden, should be sent to the Chief II Patent and Trademark Office, U.S. Department of Commerce, Wash NOT SEND FEES OR COMPLETED FORMS TO THIS A Commissioner for Patents, Washington, DC 20231.	aring, and submitting the ding upon the individual mplete this form and/or   nformation Officer, U.S.

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### UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO	. FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/487,004 01/19/2000		01/19/2000	TSUTOMU YAMADA	2602		
23413	413 7590 10/21/2002			EXAMIN	IER	
CANTOR COLBURN, LLP 55 GRIFFIN ROAD SOUTH				ABRAHAM, FETSUM		
BLOOMFIELD, CT 06002				ART UNIT	PAPER NUMBER	
				2826		
				DATE MAILED: 10/21/2002		

# Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
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CANTOR COL		ABRAHAM, FETSUM				
55 GRIFFIN ROABLOOMFIELD,			ART UNIT	PAPER NUMBER		
BEOOMI IBBB,	01 vvv-		2826	707		
			DATE MAILED: 10/21/2002			

## Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: <a href="http://www.uspto.gov/main/howtofees.htm">http://www.uspto.gov/main/howtofees.htm</a>.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

				- Alm
	Application	No.	Applicant(s)	VIII
Nation of Allowah life.	09/487,004		YAMADA, TSUTON	1U
Notice of Allowability	Examiner		Art Unit	
	Fetsum Abr	aham	2826	
The MAILING DATE of this communication appeared all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAIN) or other appro IGHTS. This a	S) CLOSED in this appriate communication in the subject in the sub	pplication. If not include on will be mailed in due	ed course <b>THIS</b>
<ol> <li>This communication is responsive to <u>amt A</u>.</li> <li>The allowed claim(s) is/are <u>1-11</u>.</li> </ol>				
3. The drawings filed on was accepted by the Examine	>r			
4.   Acknowledgment is made of a claim for foreign priority und  a)   All b)   Some* c)   None of the:		§ 119(a)-(d) or (f).		
<ol> <li>Certified copies of the priority documents have</li> </ol>	e been receive	d.		
2.  Certified copies of the priority documents have	e been receive	d in Application No	<u> </u>	
<ol> <li>Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> </ol>	cuments have	been received in this	national stage applica	tion from the
* Certified copies not received:				
5. Acknowledgment is made of a claim for domestic priority u			sional application).	
<ul><li>(a)  The translation of the foreign language provisional a</li><li>6. Acknowledgment is made of a claim for domestic priority u</li></ul>				
o	nuel 33 0.3.0.	99 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	f this communi this applicatior	cation to file a reply on THIS THREE-MO	complying with the requ	irements noted EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be submINFORMAL PATENT APPLICATION (PTO-152) which gives reas	nitted. Note the son(s) why the	attached EXAMINEI oath or declaration is	R'S AMENDMENT or N s deficient.	OTICE OF
<ol> <li>CORRECTED DRAWINGS must be submitted.</li> <li>(a) ☐ including changes required by the Notice of Draftspers</li> <li>1) ☐ hereto or 2) ☐ to Paper No</li> </ol>				
(b) including changes required by the proposed drawing of				
(c) ☐ including changes required by the attached Examiner	's Amendment	/ Comment or in the	Office action of Paper	No
Identifying indicia such as the application number (see 37 CFR 1, of each sheet. The drawings should be filed as a separate paper	.84(c)) should b with a transmit	e written on the drawi tal letter addressed to	ings in the top margin (n the Official Draftsperso	ot the back) on.
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR T</li> </ol>	sit of BIOLOC HE DEPOSIT	SICAL MATERIAL OF BIOLOGICAL MA	must be submitted. N ATERIAL.	lote the
Attachment(s)				
<ul> <li>1⊠ Notice of References Cited (PTO-892)</li> <li>3□ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>5□ Information Disclosure Statements (PTO-1449), Paper No</li></ul>		4☐ Interview Summ 6⊠ Examina 's Ame	nal Patent Application (Finary (PTO-113), Paper and ment/Comment ement of Reasons for A	No

Serial Number: 09/487,004 -2-

Art Unit: 2826

В

# EXAMINER'S AMENDMENT/Reasons for allowance1.

Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.

The application has been amended as follows:

The title has been changed to read as:

An electroluminescence display device with a NMOSFET switch having an LDD based double-gated structure.

Claims 1-11 are allowed.

The claimed electro-optical device is composed of an LDD based offseted NMOSFET having double-gated structure which the prior arts do not teach or render obvious.

Any inquiry concerning this communication should be directed to Fetsum Abraham at telephone number (703) 305,3793, or by E-mail at *fetsum.abraham@uspto.gov*.

Serial Number: 09/487,004

Art Unit: 2826

В

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Any inquiry of a general nature or relating to the status of this application should be directed to the SPE of AU:2826 at (703)308-6601, or the Group receptionist at (703) 308-0956.

Fetsum Abraham 10/16/02

Art Unit: 2826

В

Any inquiry of a general nature or relating to the status of this application should be directed to the SPE of AU:2826 at (703)308-6601, or the Group receptionist at (703) 308-0956.

Fetsum Abraham 10/16/02

